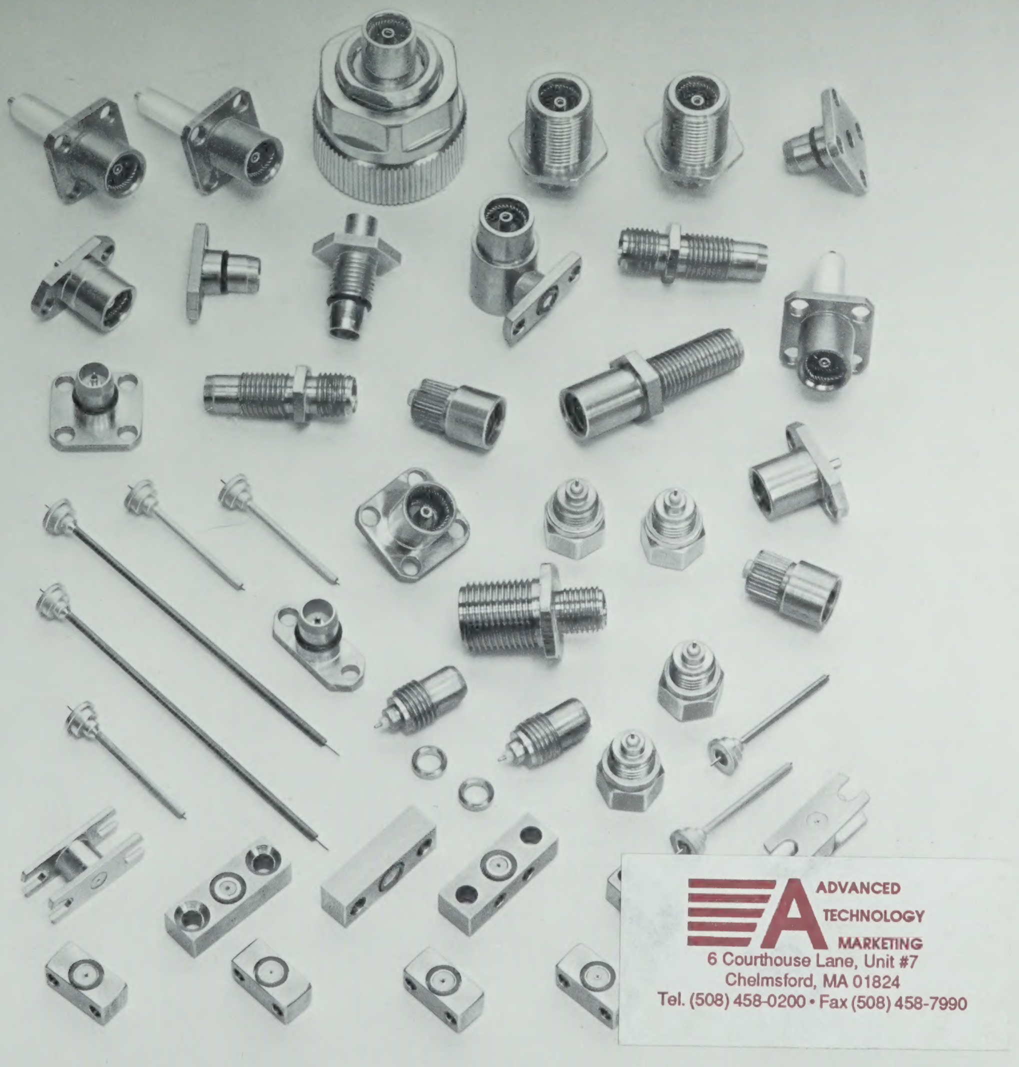
dynawave®

BLINDMATE CONNECTORS ▪ ADAPTERS ▪ INTERCONNECT COMPONENTS

dynamate™ ▪ dynamite™ ▪ dynacon™ ▪ dynaseal™



ADVANCED
TECHNOLOGY
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The Most Efficient Packaging for Microwave Systems

intro

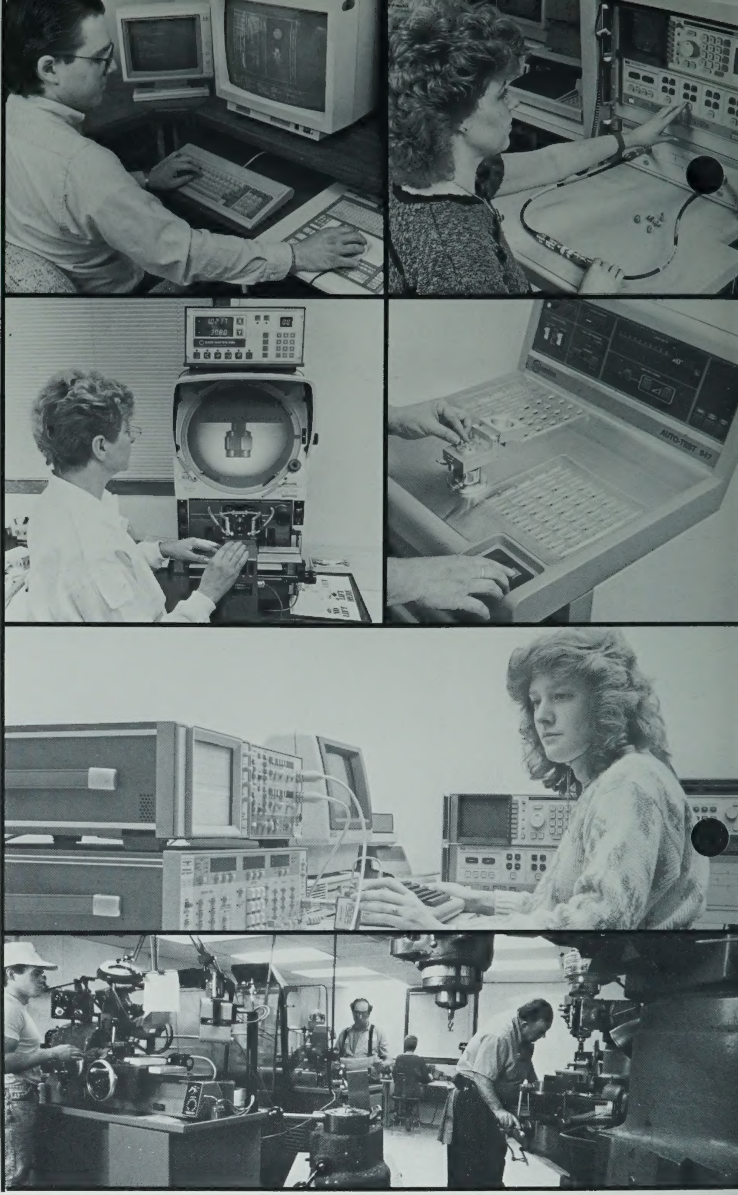
Since its beginning in 1985, Dynawave has provided system and component manufacturers with high quality, reliable precision coaxial connectors and adapters that meet electrical performance, mechanical durability, and the environmental requirements of MIL-C-39012.

Dynawave produces two series of Blind-Mate connectors and adapters: Dynamate™ and Dynamite™. Dynamates are compatible with OSP* and BMA; Dynamites are compatible with OSSP*. For interconnecting components, we offer Dynacon™ and Dynaseal™ which are the ultimate for MIC component packaging. We also specialize in cable assemblies from DC to 26.5 GHz with complete capabilities for prototypes, short runs and large production quantities of phase-matched cables, delay lines, lab analysis test cables, and hermetically-sealed cables. SMA, SSMA, TNC, N, and SC types complete our coaxial connector lines. This complete manufacturing capability is complemented by a sales force that provides the best customer service possible. Our R&D program has the design expertise and aggressiveness to respond to the increasing sophistication and constant improvement in microwave systems.

Our CAD system is supported by the latest in production and special-process equipment, automatic and semi-automatic machining, and test equipment such as HP 8510 and Wiltron Network Analyzers (from 10 MHz to 40 GHz) and a Varian 874 Leak Detector. All parts are assembled in-house. A fully equipped model shop enables us to react quickly to your special requirements.

Most operations are computerized resulting in better control and increased efficiency. We stress quality control from initial contract planning and work instructions through purchasing, handling, machining, assembly and fabrication, testing, and shipping. Developed in accordance with MIL-Q-9858 our inspection system is per MIL-I-45208, and our calibration system per MIL-C-45662.

At Dynawave, we know the service and support provided by us for our products are second to none and we welcome the opportunity to assist you with application-engineering requirements.



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50-OHM Glass Seal Feedthrough 18
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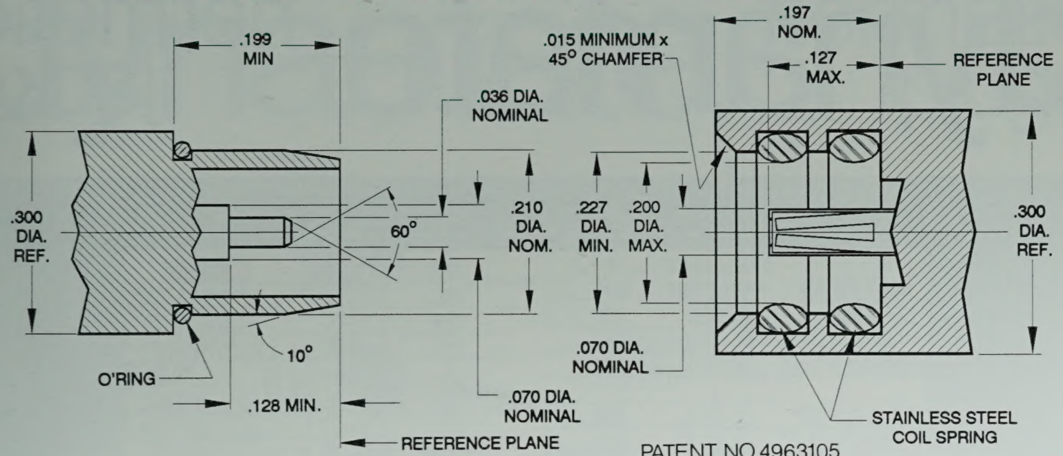
Male Pin Contacts with TAB 18

*Trademark of M/A-COM Omni Spectra, Inc.

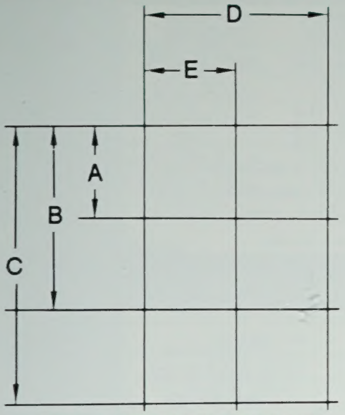
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

DYNAMATE™ BLINDMATE CONNECTOR SPECIFICATIONS



PATENT NO.4963105

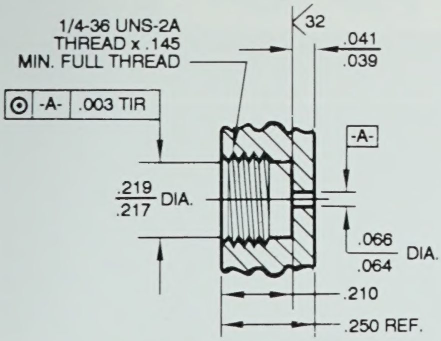
RIGID MOUNT APPLICATIONS



HOLE PATTERN DIMENSIONING

ALL HOLE DIMENSIONING MUST BE SPECIFIED FROM A PRE-DESIGNATED REFERENCE HOLE TRUE POSITION TOLERANCE OF .003

RIGID MOUNT FOR CONNECTOR PAIR MISALIGNMENT (TOTAL MISALIGNMENT .007)



RECOMMENDED MOUNTING DIMENSIONS FOR HERMETIC CONNECTORS

ELECTRICAL

FREQUENCY RANGE	DC TO 26.5 GHz
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE INTERFACE (FULLY MATED)	100 dB-FGHz
TEMPERATURE RATING (CENTIGRADE)	-65o C to +165o C
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	750
INSULATION RESISTANCE (MIN. MEGOHMS)	10,000
INSERTION LOSS dB MAX. (FULLY MATED)	.035dB X $\sqrt{FGHz}$
VSWR MAX (FULLY MATED)	1.05 + .007 X FGHz

MECHANICAL

DYNAMATE ENGAGEMENT FORCES:	
INSERTION (MAX. OUNCES	48.0
WITHDRAWAL (MIN. OUNCES)	4.0
DYNAMATE DURABILITY (MIN. MATING)	1,500

ENVIRONMENTAL

TEMPERATURE CYCLING	MIL-STD-202, METHOD 102, COND. C (-65o C to +200o C)
SHOCK	MIL-STD-202, METHOD 213, COND. I (100 G's)
VIBRATION	MIL-STD-202, METHOD 204, COND. D (20 G's)
MOISTURE RESISTANCE	MIL-STD-202, METHOD 106, LESS STEP 7b
CORROSION	MIL-STD-202, METHOD 101, COND. B (48 HOURS)
BAROMETRIC PRESSURE (ALTITUDE)	MIL-STD-202, METHOD 105, COND. C 970,000 FT.) (190 VRMS)
HERMETICITY	1 x 10^{-8} cc/SEC.

MATERIAL

CONNECTOR BODY AND COIL SPRING	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A
CENTER CONTACT	BERYLLIUM COPPER PER QQ-C-530, ALLOY 173 COND. HT
INSULATOR	TEFLON PER D 1457
O'RING	RUBBER, NITRILE (BUNA N) PER MIL-P-25732 COLOR: BLACK

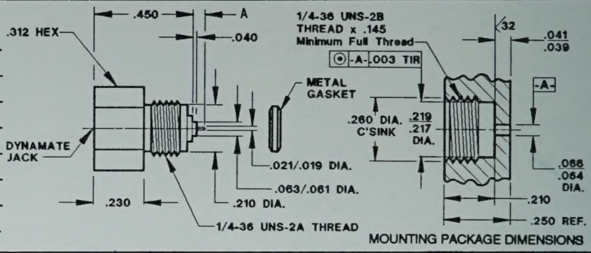
FINISH

BODY (GOLD)	GOLD PER MIL-G-45204, TYPE II, GRADE C, CLASS 1 OVER NICKEL PER QQ-N-290, (.00010 MIN. THK.)
BODY AND SPRING (PASSIVATED)	PASSIVATE PER QQ-P-35A, TYPE I
CENTER CONTACT	GOLD PER MIL-G-45204, TYPE II, GRADE C, CLASS 2 (.000100 MINIMUM THICKNESS) OVER NICKEL PER QQ-N-290, CLASS 1 (.000100 MINIMUM THICKNESS) OVER COPPER PER MIL-C-14550 (000010 MINIMUM THICKNESS)
INSULATOR AND O'RING	N/A

dynamate hermetic jacks

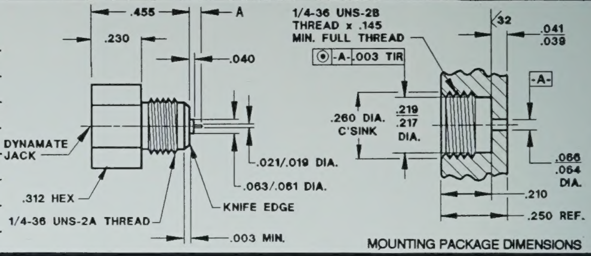
HERMETIC JACK with METAL GASKET

PART NUMBER	BODY FINISH	FREQUENCY RANGE GHz	A DIM.
2930-0431-6420	GOLD PLATED	DC-26.5	.080
2930-0431-6720	PASSIVATED(1)	DC-26.5	.080
2930-0431-6220	PASSIVATED(2)	DC-26.5	.080
2930-0431-6422	GOLD PLATED	DC-26.5	.058
2930-0431-6722	PASSIVATED(1)	DC-26.5	.058
2930-0431-6222	PASSIVATED(2)	DC-26.5	.058



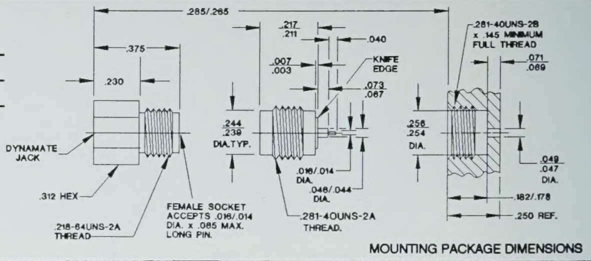
HERMETIC JACK with KNIFE EDGE

PART NUMBER	BODY FINISH	FREQUENCY RANGE GHz	A DIM.
2930-0431-6440	GOLD PLATED	DC-26.5	.080
2930-0431-6740	PASSIVATED(1)	DC-26.5	.080
2930-0431-6240	PASSIVATED(2)	DC-26.5	.080
2930-0431-6445	GOLD PLATED	DC-26.5	.056
2930-0431-6745	PASSIVATED(1)	DC-26.5	.056
2930-0431-6245	PASSIVATED(2)	DC-26.5	.056



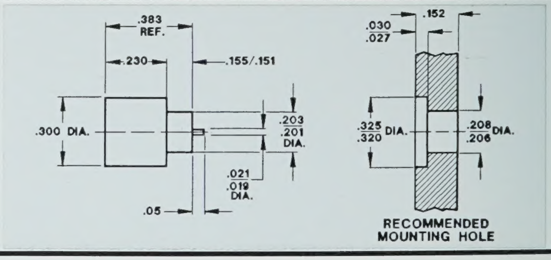
HERMETIC JACK FIELD REPLACEABLE (2 PIECE)

PART NUMBER	BODY FINISH	FREQUENCY RANGE GHz
2933-0431-6416	GOLD PLATED	DC-26.5
2933-0431-6216	PASSIVATED(3)	DC-26.5



HERMETIC JACK SOLDER-IN

PART NUMBER	BODY FINISH	FREQUENCY RANGE GHz
2940-0431-6420	GOLD PLATED	DC-26.5
2940-0431-6720	NICKEL PLATED	DC-26.5

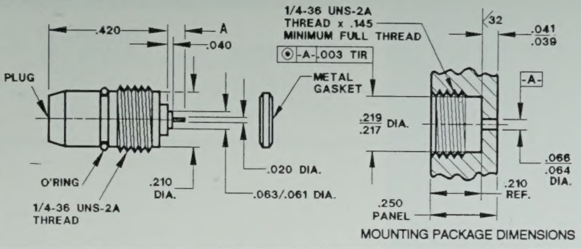


(1) NICKEL PLATED KOVAR PIN
(2) GOLD PLATED KOVAR PIN
(3) CONNECTOR BODY PASSIVATED, HERMETIC HEADER AND KOVAR PIN GOLD PLATED

dynamate hermetic plugs

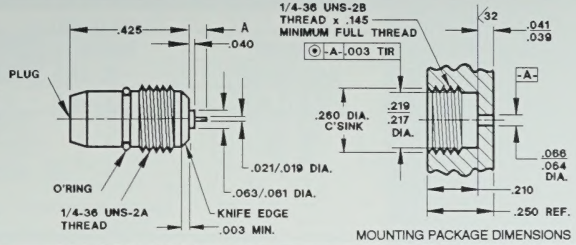
HERMETIC PLUG with METAL GASKET

PART NUMBER	FINISH	FREQUENCY RANGE GHz	A DIM.
2830-0431-6420	GOLD PLATED	DC-26.5	.080
2830-0431-6720	PASSIVATED(1)	DC-26.5	.080
2830-0431-6220	PASSIVATED(2)	DC-26.5	.080
2830-0431-6422	GOLD PLATED	DC-26.5	.058
2830-0431-6722	PASSIVATED(1)	DC-26.5	.058
2830-0431-6222	PASSIVATED(2)	DC-26.5	.058



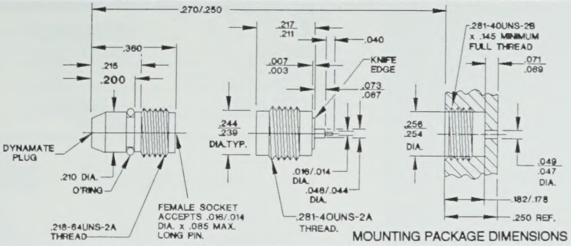
HERMETIC PLUG with KNIFE EDGE

PART NUMBER	FINISH	FREQUENCY RANGE GHz	A DIM.
2830-0431-6440	GOLD PLATED	DC-26.5	.080
2830-0431-6740	PASSIVATED(1)	DC-26.5	.080
2830-0431-6240	PASSIVATED(2)	DC-26.5	.080
2830-0431-6445	GOLD PLATED	DC-26.5	.056
2830-0431-6745	PASSIVATED(1)	DC-26.5	.056
2830-0431-6245	PASSIVATED(2)	DC-26.5	.056



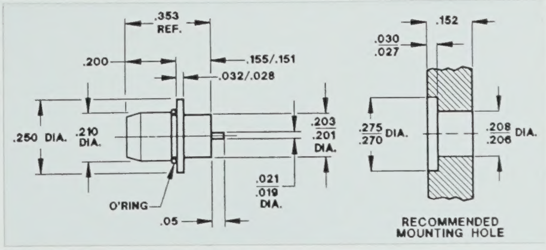
HERMETIC PLUG FIELD REPLACEABLE (2 PIECE)

PART NUMBER	FINISH	FREQUENCY RANGE GHz
2833-0431-6416	GOLD PLATED	DC-26.5
2833-0431-6216	PASSIVATED(3)	DC-26.5



HERMETIC PLUG SOLDER-IN

PART NUMBER	FINISH	FREQUENCY RANGE GHz
2840-0431-6420	GOLD PLATED	DC-26.5
2840-0431-6720	NICKEL PLATED	DC-26.5



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(1) NICKEL PLATED KOVAR PIN
(2) GOLD PLATED KOVAR PIN
(3) CONNECTOR BODY PASSIVATED, HERMETIC HEADER AND KOVAR PIN GOLD PLATED

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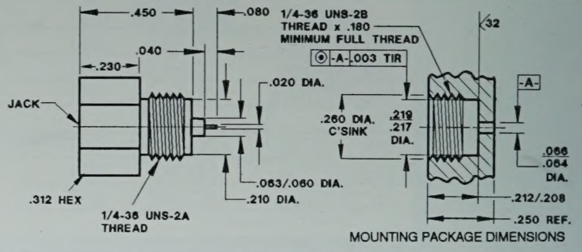
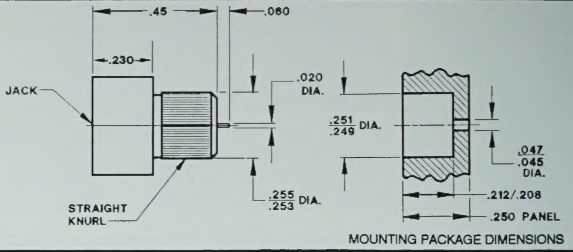
NON-HERMETIC JACK SCREW-IN

PART NUMBER	BODY FINISH	FREQUENCY RANGE GHz
2930-0031-6220	PASSIVATED	DC-26.5
2930-0031-6420	GOLD PLATED	DC-26.5



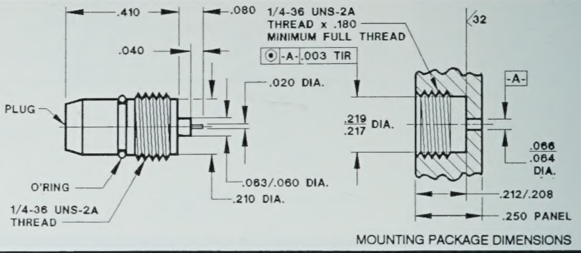
NON-HERMETIC JACK PRESS-IN

PART NUMBER	FINISH	FREQUENCY RANGE GHz
2940-0031-6220	PASSIVATED	DC-26.5
2940-0031-6420	GOLD PLATED	DC-26.5



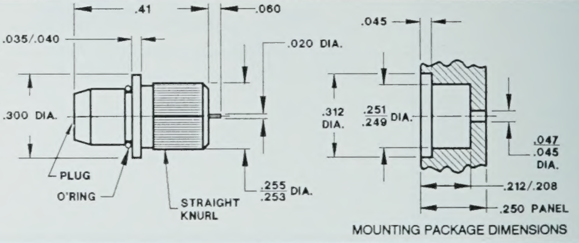
NON-HERMETIC PLUG SCREW-IN

PART NUMBER	FINISH	FREQUENCY RANGE GHz
2830-0031-6220	PASSIVATED	DC-26.5
2830-0031-6420	GOLD PLATED	DC-26.5



NON-HERMETIC PLUG PRESS-IN

PART NUMBER	FINISH	FREQUENCY RANGE GHz
2840-0031-6420	GOLD PLATED	DC-26.5
2840-0031-6220	PASSIVATED	DC-26.5



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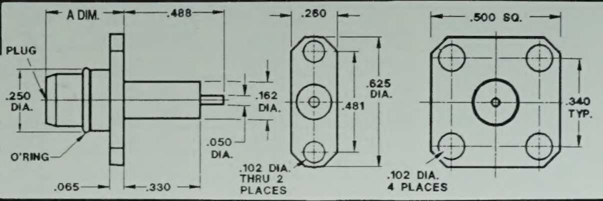
receptacles & cable types

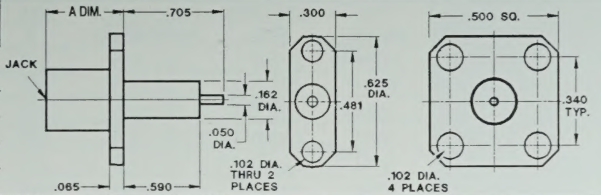
PLUG RECEPTACLE

PART NUMBER	TYPE	FREQUENCY GHz	A DIM.
2852-0031-6248	2 HOLE FLANGE MOUNT	DC-20.0	.375
2854-0031-6248	4 HOLE FLANGE MOUNT	DC-20.0	.375
2852-0031-6249	2 HOLE FLANGE MOUNT	DC-20.0	.390
2854-0031-6249	4 HOLE FLANGE MOUNT	DC-20.0	.390



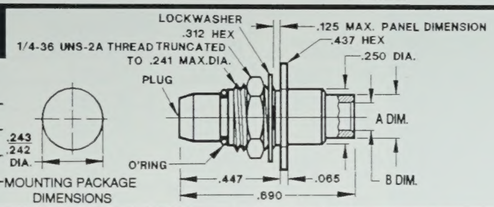
JACK RECEPTACLE

PART NUMBER	TYPE	FREQUENCY GHz	A DIM.
2952-0031-6248	2 HOLE FLANGE MOUNT	DC-20.0	.375
2954-0031-6248	4 HOLE FLANGE MOUNT	DC-20.0	.375
2952-0031-6249	2 HOLE FLANGE MOUNT	DC-20.0	.390
2954-0031-6249	4 HOLE FLANGE MOUNT	DC-20.0	.390

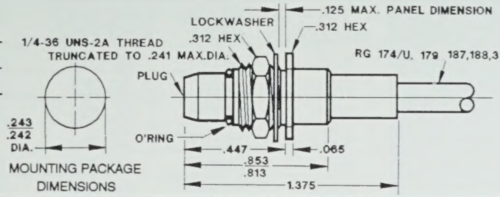


CABLE PLUG

PART NUMBER	BULKHEAD REAR MOUNT	FREQUENCY GHz	A DIM.	B DIM.
2810-4121-6450	DIRECT SOLDER .141	DC-20.0	.180	.143
2810-8521-6450	DIRECT SOLDER .085	DC-26.5	.120	.089

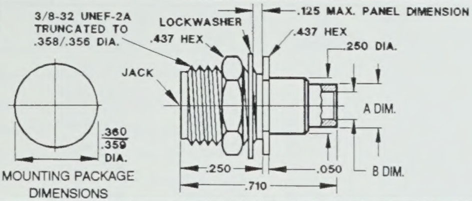

LOCKWASHER
.312 HEX
.125 MAX. PANEL DIMENSION
.437 HEX
1/4-36 UNS-2A THREAD TRUNCATED TO .241 MAX.DIA.
.250 DIA.
PLUG
A DIM.
.243
.242
DIA.
O'RING
MOUNTING PACKAGE DIMENSIONS
.447
.065
B DIM.
.690

PART NUMBER	BULKHEAD REAR MOUNT	FREQUENCY GHz
2810-4231-6231	RG55/U, 142, 223, 400	DC-18.0
2810-1630-6231	RG174/U, 179, 187, 188, 316	DC-18.0

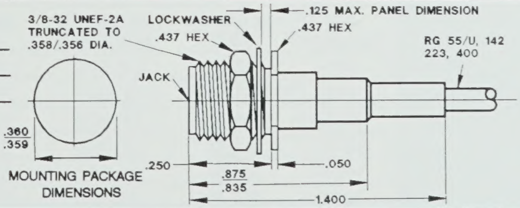

LOCKWASHER
.125 MAX. PANEL DIMENSION
.312 HEX
.312 HEX
1/4-36 UNS-2A THREAD TRUNCATED TO .241 MAX.DIA.
RG 174/U, 179 187,188,316.
PLUG
.243
.242
DIA.
O'RING
.447
.065
.853
.813
MOUNTING PACKAGE DIMENSIONS
1.375

CABLE JACK

PART NUMBER	BULKHEAD REAR MOUNT	FREQUENCY GHz	A DIM.	B DIM.
2910-4121-6450	DIRECT SOLDER .141	DC-20.0	.180	.143
2910-8521-6450	DIRECT SOLDER .085	DC-26.5	.120	.089


3/8-32 UNEF-2A TRUNCATED TO .358/.356 DIA.
LOCKWASHER
.125 MAX. PANEL DIMENSION
.437 HEX
.437 HEX
.250 DIA.
JACK
A DIM.
.360
.359
DIA.
.250
.050
B DIM.
MOUNTING PACKAGE DIMENSIONS
.710

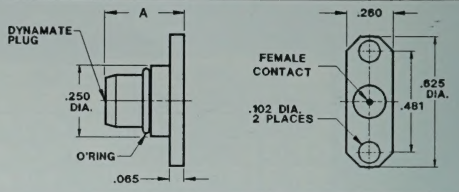
PART NUMBER	BULKHEAD REAR MOUNT	FREQUENCY GHz
2910-4230-6231	RG55/U, 142, 223, 400	DC-18.0
2910-1630-6231	RG174/U, 179, 187, 188, 400	DC-18.0


3/8-32 UNEF-2A TRUNCATED TO .358/.356 DIA.
LOCKWASHER
.437 HEX
.125 MAX. PANEL DIMENSION
.437 HEX
RG 55/U, 142 223, 400
JACK
.360
.359
.250
.050
.875
.835
MOUNTING PACKAGE DIMENSIONS
1.400

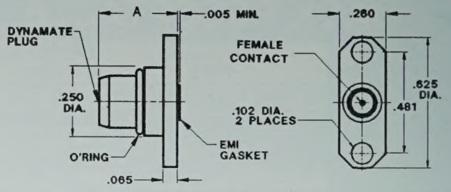
dynamate

field replaceable plugs

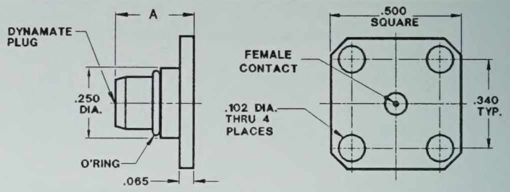
PART NUMBER	EMI GASKET	ACCEPTS PINS	FREQUENCY RANGE GHz	DIM. A
2852-0081-6215	WITHOUT	.016/.011	DC-26.5	.390
2852-0081-6220	WITHOUT	.021/.017	DC-26.5	.390
2852-0081-6236	WITHOUT	.037/.035	DC-20.0	.390
2852-0081-6275	WITHOUT	.016/.011	DC-26.5	.375
2852-0081-6240	WITHOUT	.021/.017	DC-26.5	.375
2852-0081-6238	WITHOUT	.037/.035	DC-20.0	.375



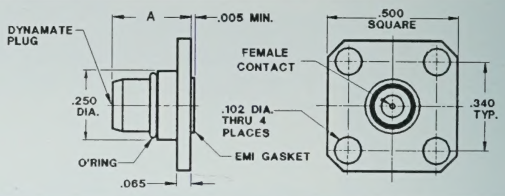
PART NUMBER	EMI GASKET	ACCEPTS PINS	FREQUENCY RANGE GHz	DIM. A
2852-0781-6215	WITH	.016/.011	DC-26.5	.390
2852-0781-6220	WITH	.021/.017	DC-26.5	.390
2852-0781-6236	WITH	.037/.035	DC-20.0	.390
2852-0781-6275	WITH	.016/.011	DC-26.5	.375
2852-0781-6240	WITH	.021/.017	DC-26.5	.375
2852-0781-6238	WITH	.037/.035	DC-20.0	.375



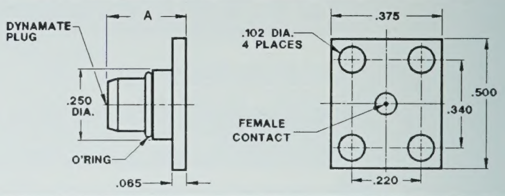
PART NUMBER	EMI GASKET	ACCEPTS PINS	FREQUENCY RANGE GHz	DIM. A
2854-0081-6215	WITHOUT	.016/.011	DC-26.5	.390
2854-0081-6220	WITHOUT	.021/.017	DC-26.5	.390
2854-0081-6236	WITHOUT	.037/.035	DC-20.0	.390
2854-0081-6275	WITHOUT	.016/.011	DC-26.5	.375
2854-0081-6240	WITHOUT	.021/.017	DC-26.5	.375
2854-0081-6238	WITHOUT	.037/.035	DC-20.0	.375



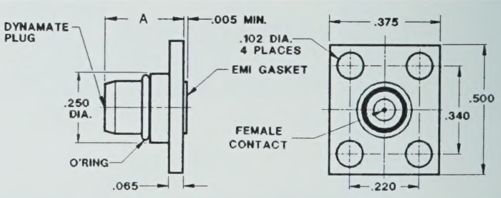
PART NUMBER	EMI GASKET	ACCEPTS PINS	FREQUENCY RANGE GHz	DIM. A
2854-0781-6215	WITH	.016/.011	DC-26.5	.390
2854-0781-6220	WITH	.021/.017	DC-26.5	.390
2854-0781-6236	WITH	.037/.035	DC-20.0	.390
2854-0781-6275	WITH	.016/.011	DC-26.5	.375
2854-0781-6240	WITH	.021/.017	DC-26.5	.375
2854-0781-6238	WITH	.037/.035	DC-20.0	.375



PART NUMBER	EMI GASKET	ACCEPTS PINS	FREQUENCY RANGE GHz	DIM. A
2854-0081-6219	WITHOUT	.016/.011	DC-26.5	.390
2854-0081-6229	WITHOUT	.021/.017	DC-26.5	.390
2854-0081-6239	WITHOUT	.037/.035	DC-20.0	.390
2854-0081-6279	WITHOUT	.016/.011	DC-26.5	.375
2854-0081-6249	WITHOUT	.021/.017	DC-26.5	.375
2854-0081-6269	WITHOUT	.037/.035	DC-20.0	.375



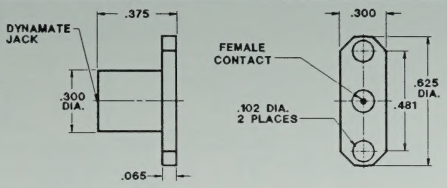
PART NUMBER	EMI GASKET	ACCEPTS PINS	FREQUENCY RANGE GHz	DIM. A
2854-0781-6219	WITH	.016/.011	DC-26.5	.390
2854-0781-6229	WITH	.021/.017	DC-26.5	.390
2854-0781-6239	WITH	.037/.035	DC-20.5	.390
2854-0781-6279	WITH	.016/.011	DC-26.0	.375
2854-0781-6249	WITH	.021/.017	DC-26.5	.375
2854-0781-6269	WITH	.037/.035	DC-20.0	.375



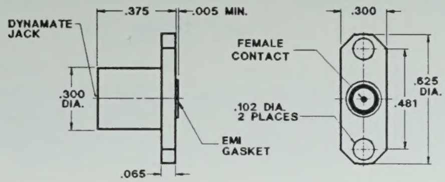
.dynamate

field replaceable jacks

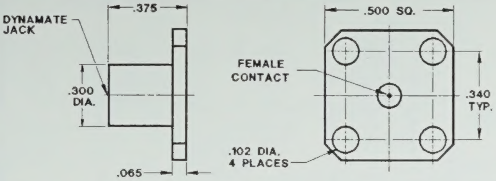
PART NUMBER	EMI GASKET	ACCEPTS PINS	FREQUENCY RANGE GHz
2952-0081-6215	WITHOUT	.016/.011	DC-26.5
2952-0081-6220	WITHOUT	.021/.017	DC-26.5
2952-0081-6236	WITHOUT	.037/.035	DC-20.0



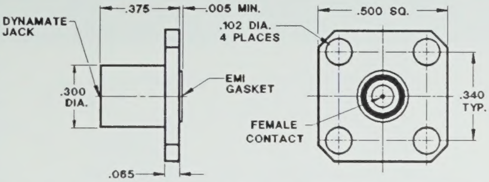
PART NUMBER	EMI GASKET	ACCEPTS PINS	FREQUENCY RANGE GHz
2952-0781-6215	WITH	.016/.011	DC-26.5
2952-0781-6220	WITH	.021/.017	DC-26.5
2952-0781-6236	WITH	.037/.035	DC-20.0



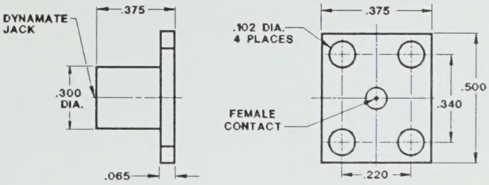
PART NUMBER	EMI GASKET	ACCEPTS PINS	FREQUENCY RANGE GHz
2954-0081-6215	WITHOUT	.016/.011	DC-26.5
2954-0081-6220	WITHOUT	.021/.017	DC-26.5
2954-0081-6236	WITHOUT	.037/.035	DC-20.0



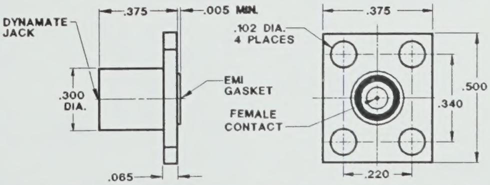
PART NUMBER	EMI GASKET	ACCEPTS PINS	FREQUENCY RANGE GHz
2954-0781-6215	WITH	.016/.011	DC-26.5
2954-0781-6220	WITH	.021/.017	DC-26.5
2954-0781-6236	WITH	.037/.035	DC-20.0



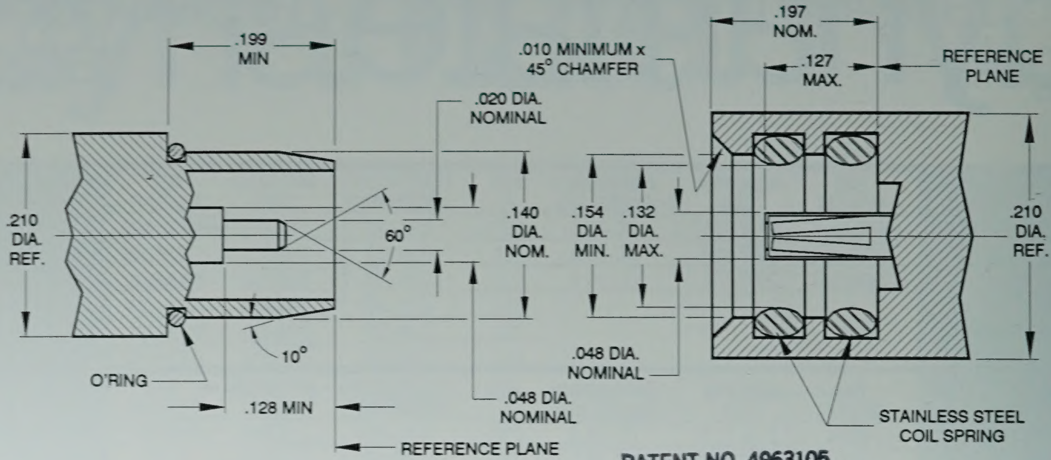
PART NUMBER	EMI GASKET	ACCEPTS PINS	FREQUENCY RANGE GHz
2954-0081-6219	WITHOUT	.016/.011	DC-26.5
2954-0081-6229	WITHOUT	.021/.017	DC-26.5
2954-0081-6239	WITHOUT	.037/.035	DC-20.0



PART NUMBER	EMI GASKET	ACCEPTS PINS	FREQUENCY RANGE GHz
2954-0781-6219	WITH	.016/.011	DC-26.5
2954-0781-6229	WITH	.021/.017	DC-26.5
2954-0781-6239	WITH	.037/.035	DC-20.0

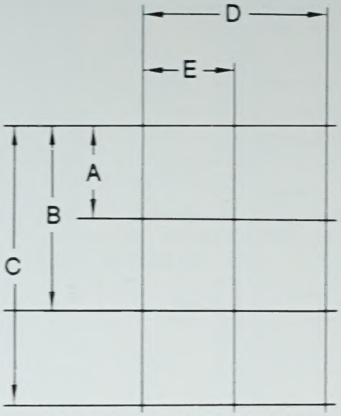


DYNAMITE™ BLINDMATE CONNECTOR SPECIFICATIONS



PATENT NO. 4963105

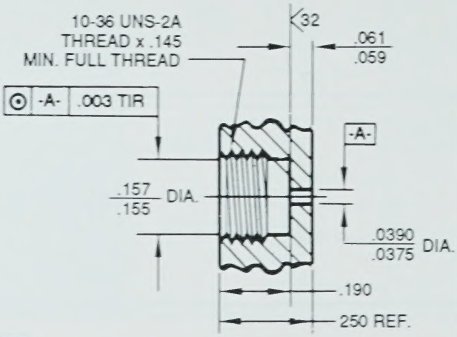
RIGID MOUNT APPLICATIONS



HOLE PATTERN DIMENSIONING

ALL HOLE DIMENSIONING MUST BE SPECIFIED
FROM A PRE-DESIGNATED REFERENCE HOLE
TRUE POSITION TOLERANCE OF .003

RIGID MOUNT FOR CONNECTOR PAIR MISALIGNMENT
(TOTAL MISALIGNMENT .005)



RECOMMENDED MOUNTING DIMENSIONS
FOR HERMETIC CONNECTORS

ELECTRICAL

FREQUENCY RANGE	DC TO 38 GHz
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE INTERFACE (FULLY MATED	100 dB-FGHz
TEMPERATURE RATING (CENTIGRADE)	-65° C to +165° C
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	750
INSULATION RESISTANCE (MIN. MEGOHMS)	5000
INSERTION LOSS dB MAX. (FULLY MATED)	.045 dB x $\sqrt{\text{FGHz}}$
VSWR (FULLY MATED)	1.05 + .008 x FGHz

MECHANICAL

DYNAMITE ENGAGEMENT FORCES:	
INSERTION (MAX. OUNCES	32.0
WITHDRAWAL (MIN. OUNCES)	1.5
DYNAMITE DURABILITY (MIN. MATING)	1,000

ENVIRONMENTAL

TEMPERATURE CYCLING	MIL-STD-202, METHOD 102, COND. C (-65° C to +200° C)
SHOCK	MIL-STD-202, METHOD 213, COND. I (100 G's)
VIBRATION	MIL-STD-202, METHOD 204, COND. D (20 G's)
MOISTURE RESISTANCE	MIL-STD-202, METHOD 106, LESS STEP 7b
CORROSION	MIL-STD-202, METHOD 101, COND. B (48 HOURS)
BAROMETRIC PRESSURE (ALTITUDE)	MIL-STD-202, METHOD 105, COND. C 970,000 FT.) (190 VRMS)
HERMETICITY	1 x 10^{-8} cc/SEC.

MATERIAL

CONNECTOR BODY AND COIL SPRING	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A
CENTER CONTACT	BERYLLIUM COPPER PER QQ-C-530, ALLOY 173 COND. HT
INSULATOR	TEFLON PER D 1457
O'RING	RUBBER, NITRILE (BUNA N) PER MIL-P-25732 COLOR: BLACK

FINISH

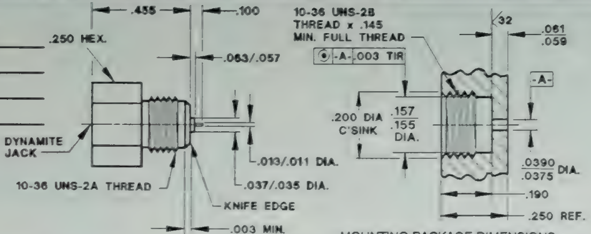
BODY (GOLD)	GOLD PER MIL-G-45204, TYPE II, GRADE C, CLASS 1 OVER NICKEL PER QQ-N-290, (.00010 MIN. THK.)
BODY AND SPRING (PASSIVATED)	PASSIVATE PER QQ-P-35A, TYPE I
CENTER CONTACT	GOLD PER MIL-G-45204, TYPE II, GRADE C, CLASS 2 (.000100 MINIMUM THICKNESS) OVER NICKEL PER QQ-N-290, CLASS 1 (.000100 MINIMUM THICKNESS) OVER COPPER PER MIL-C-14550 (000010 MINIMUM THICKNESS)
INSULATOR AND O'RING	N/A

dynamite

hermetic & non-hermetic jacks & plugs

HERMETIC JACK with KNIFE EDGE

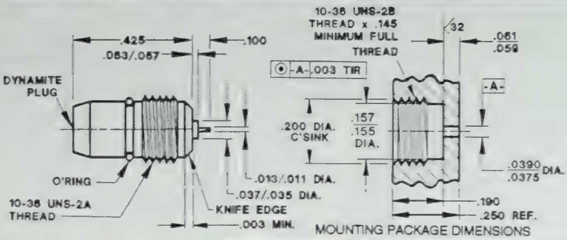
PART NUMBER	FINISH	FREQUENCY RANGE GHz
2730-0431-6460	GOLD PLATED	DC-38
2730-0431-6760	PASSIVATED(1)	DC-38
2730-0431-6260	PASSIVATED(2)	DC-38



MOUNTING PACKAGE DIMENSIONS

HERMETIC PLUG with KNIFE EDGE

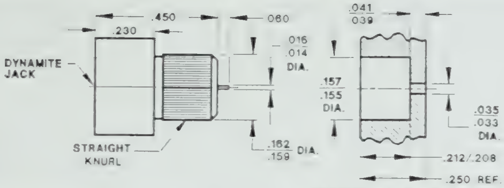
PART NUMBER	FINISH	FREQUENCY RANGE GHz
2630-0431-6460	GOLD PLATED	DC-38
2630-0431-6760	PASSIVATED(1)	DC-38
2630-0431-6260	PASSIVATED(2)	DC-38



MOUNTING PACKAGE DIMENSIONS

PRESS-FIT JACK RECEPTACLES

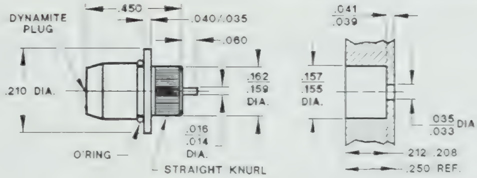
PART NUMBER	FINISH	FREQUENCY RANGE GHz
2740-0031-6245	PASSIVATED	DC-38



MOUNTING PACKAGE DIMENSIONS

PRESS-FIT PLUG RECEPTACLES

PART NUMBER	FINISH	FREQUENCY RANGE GHz
2640-0031-6245	PASSIVATED	DC-38



MOUNTING PACKAGE DIMENSIONS

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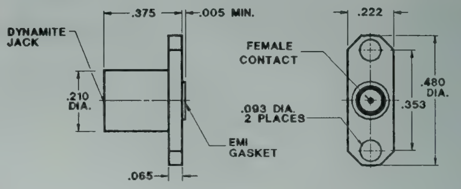
(1) NICKEL PLATED KOVAR PIN
(2) GOLD PLATED KOVAR PIN

dynamite

field replaceable jacks & plugs

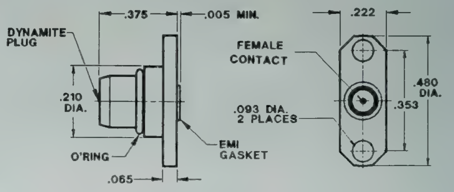
FIELD REPLACEABLE JACK (2 HOLE)

PART NUMBER	EMI GASKET	ACCEPTS PINS	FREQUENCY RANGE GHz
2752-0081-6213	WITHOUT	.016/.011	DC-38
2752-0081-6223	WITHOUT	.021/.017	DC-38
2752-0781-6213	WITH	.016/.011	DC-38
2752-0781-6223	WITH	.021/.017	DC-38



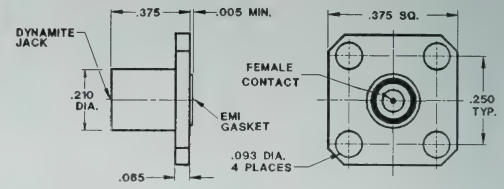
FIELD REPLACEABLE PLUG (2 HOLE)

PART NUMBER	EMI GASKET	ACCEPTS PINS	FREQUENCY RANGE GHz
2652-0081-6213	WITHOUT	.016/.011	DC-38
2652-0081-6223	WITHOUT	.021/.017	DC-38
2652-0781-6213	WITH	.016/.011	DC-38
2652-0781-6223	WITH	.021/.017	DC-38



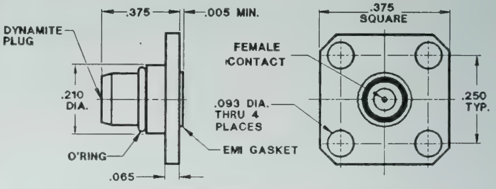
FIELD REPLACEABLE JACK (4 HOLE)

PART NUMBER	EMI GASKET	ACCEPTS PINS	FREQUENCY RANGE GHz
2754-0081-6217	WITHOUT	.016/.011	DC-38
2754-0081-6227	WITHOUT	.021/.017	DC-38
2754-0781-6217	WITH	.016/.011	DC-38
2754-0781-6227	WITH	.021/.017	DC-38



FIELD REPLACEABLE PLUG (4 HOLE)

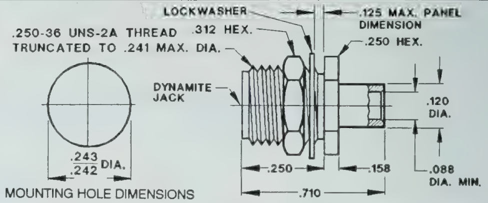
PART NUMBER	EMI GASKET	ACCEPTS PINS	FREQUENCY RANGE GHz
2654-0081-6217	WITHOUT	.016/.011	DC-38
2654-0081-6227	WITHOUT	.021/.017	DC-38
2654-0781-6217	WITH	.016/.011	DC-38
2654-0781-6227	WITH	.021/.017	DC-38



BULKHEAD FEEDTHROUGH CABLE JACK

.085 S.R. CABLE (SOLDER ATTACHMENT)

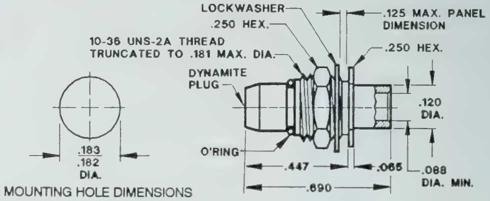
PART NUMBER	FINISH	FREQUENCY RANGE GHz
2710-8521-6450	GOLD	DC-38



BULKHEAD FEEDTHROUGH CABLE PLUG

.085 S.R. CABLE (SOLDER ATTACHMENT)

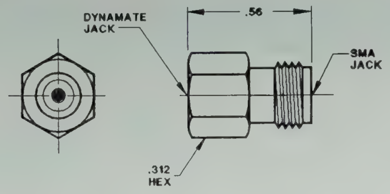
PART NUMBER	FINISH	FREQUENCY RANGE GHz
2610-8521-6450	GOLD	DC-38



.dynamate adapters

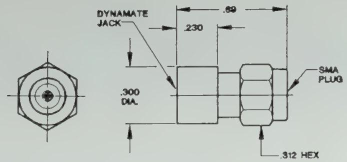
JACK TO SMA JACK

PART NUMBER 1100-2999-6255



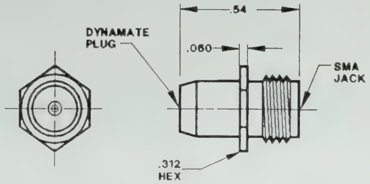
JACK TO SMA PLUG

PART NUMBER 1100-2998-6250



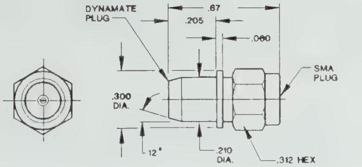
PLUG TO SMA JACK

PART NUMBER 1100-2899-6253



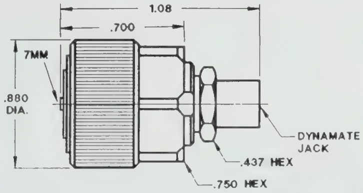
PLUG TO SMA PLUG

PART NUMBER 1100-2898-6250



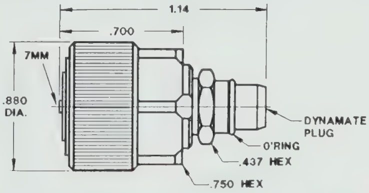
JACK TO 7mm

PART NUMBER 1100-1229-6250



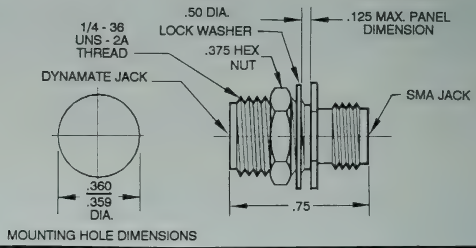
PLUG TO 7mm

PART NUMBER 1100-1228-6250



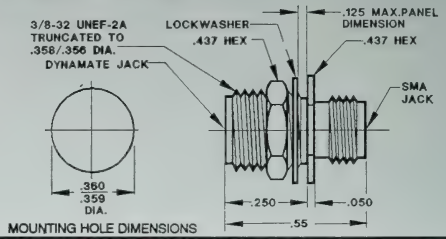
JACK TO SMA JACK

BULKHEAD TYPE
PART NUMBER 1100-2999-6250



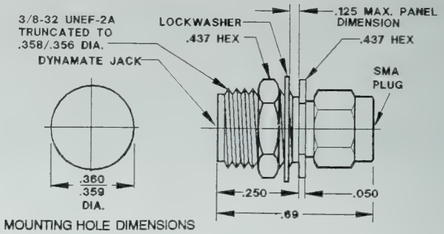
JACK TO SMA JACK

BULKHEAD TYPE
PART NUMBER 1110-2999-6255



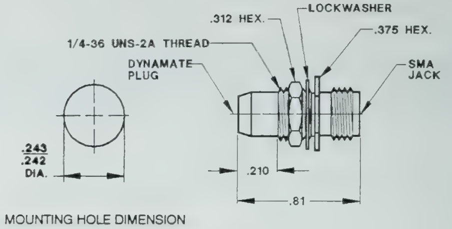
JACK TO SMA PLUG

BULKHEAD TYPE
PART NUMBER 1110-2998-6250



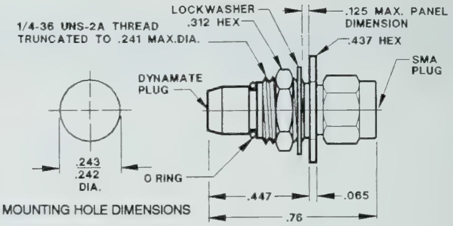
PLUG TO SMA JACK

BULKHEAD TYPE
PART NUMBER 1100-2899-6250



PLUG TO SMA PLUG

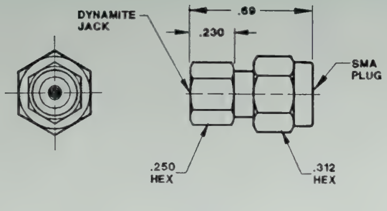
BULKHEAD TYPE
PART NUMBER 1110-2898-6276



dynamite™ adapters

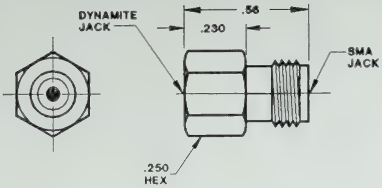
JACK TO SMA PLUG

PART NUMBER 1100-2798-6250



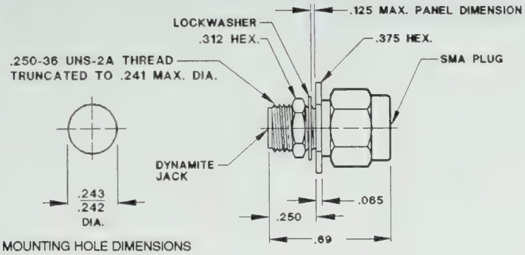
JACK TO SMA JACK

PART NUMBER 1100-2799-6250



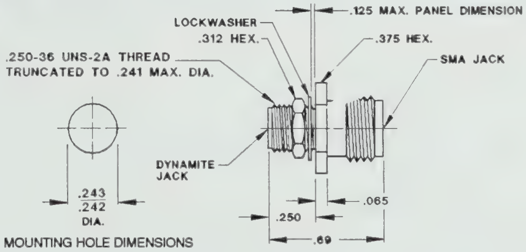
JACK TO SMA PLUG

BULKHEAD TYPE
PART NUMBER 1110-2798-6250



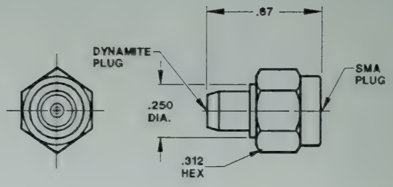
JACK TO SMA JACK

BULKHEAD TYPE
PART NUMBER 1110-2799-6250



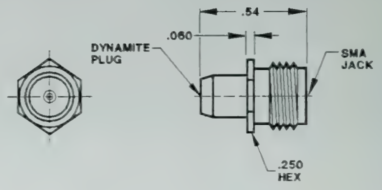
PLUG TO SMA PLUG

PART NUMBER 1100-2698-6250



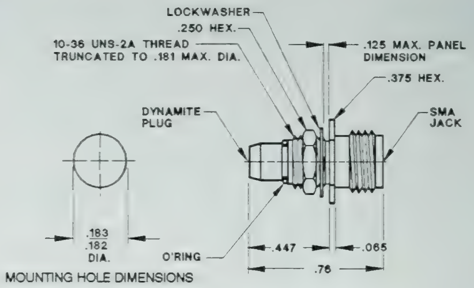
PLUG TO SMA JACK

PART NUMBER 1100-2699-6250



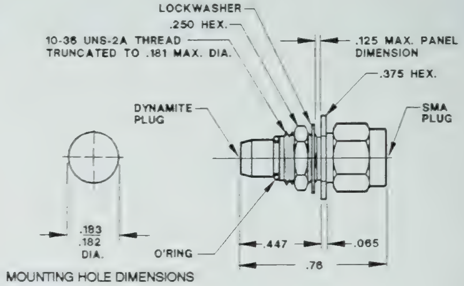
PLUG TO SMA JACK

BULKHEAD TYPE
PART NUMBER 1110-2699-6250

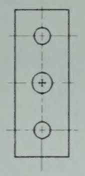


PLUG TO SMA PLUG

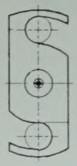
BULKHEAD TYPE
PART NUMBER 1110-2698-6250



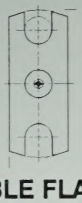
dynacon™ interconnects



RECTANGULAR
BLOCK



DOUBLE FLANGE
TWIST



DOUBLE FLANGE
STANDARD

Used to interconnect MIC packages, these DYNACONS achieve minimal space in system, subsystem, and modulator applications.

ELECTRICAL

FREQUENCY RANGE GHz	DC TO 38.0 GHz
VSWR (MAX.)*	1.05 + .006 x FGHz
INSERTION LOSS (dB MAX.)*	.03 dB X$\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65°C TO + 185°C
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	750
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE:	
CENTER CONTACT (MAX. MILLIOHMS	8.0
OUTER CONTACT (MAX. MILLIOHMS	2.0

*TERMINATED IN A 50 OHM LOAD

MECHANICAL

CAPTIVATION-CENTER CONTACT:	
MAX. AXIAL FORCE	4.0 LBS.
MAX. RADIAL TORQUE	N/A
CENTER CONTACT AXIAL FORCES:	
INSERTION (MAX. OUNCES)	32.0
WITHDRAWAL (MIN. OUNCES)	1.0

ENVIRONMENTAL

TEMPERATURE CYCLING	MIL-STD-202, METHOD 102, COND. C (-65°C TO + 200°C)
SHOCK	MIL-STD-202, METHOD 213, COND. I (100 G's)
VIBRATION	MIL-STD-202, METHOD 204, COND. D (20 G's)
MOISTURE RESISTANCE	MIL-STD-202, METHOD 106, LESS STEP 7b
CORROSION	MIL-STD-202, METHOD 101, COND. B (48 HOURS)
BAROMETRIC PRESSURE (ALTITUDE)	MIL-STD-202, METHOD 105, COND. C (70,000 FT.) (190 VRMS)

MATERIAL

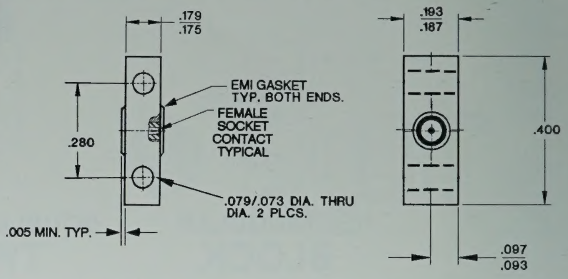
BODY	STAINLESS STEEL PER AMS 5640, TYPE 303, COND. A
CONTACT	BERYLLIUM COPPER PER QQ-C-530, ALLOY 173, COND. H.T.
INSULATOR	TEFLON PER D1457

FINISH

BODY	PASSIVATED PER QQ-P-35A, TYPE I
CONTACT	GOLD PER MIL-G-45204, TYPE I GRADE C, CLASS 2, OVER COPPER PER MIL-C-14550, CLASS 4

RECTANGULAR "BLOCK"

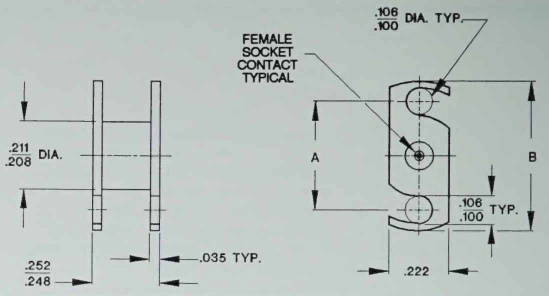
PART NUMBER	FREQUENCY GHz MAX.	ACCEPTS PIN DIA.	EMI GASKET
6352-0081-6215	38.0	.016/.011	WITHOUT
6352-0081-6220	38.0	.021/.017	WITHOUT
6352-0781-6215	38.0	.016/.011	WITH
6352-0781-6220	38.0	.021/.017	WITH



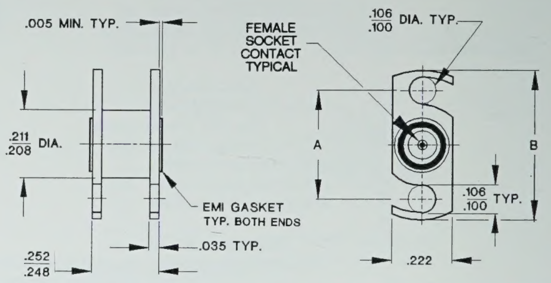
.179
.175
.193
.187
EMI GASKET TYP. BOTH ENDS.
FEMALE SOCKET CONTACT TYPICAL
.280
.400
.079/.073 DIA. THRU DIA. 2 PLCS.
.005 MIN. TYP.
.097
.093

DOUBLE FLANGE "TWIST"

PART NUMBER	FREQUENCY GHz MAX.	ACCEPTS PIN DIA.	EMI GASKET	A DIM.	B DIA.
6252-0081-6254	38.0	.016/.011	WITHOUT	.400	.550
6252-0081-6255	38.0	.016/.011	WITHOUT	.481	.625
6252-0081-6260	38.0	.021/.017	WITHOUT	.481	.625
6252-0081-6264	38.0	.021/.017	WITHOUT	.400	.550

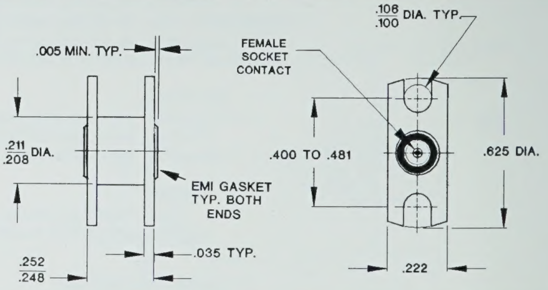


PART NUMBER	FREQUENCY GHz MAX	ACCEPTS PIN DIA.	EMI GASKET	A DIM.	B DIA.
6252-0781-6254	38.0	.016/.011	WITH	.400	.550
6252-0781-6255	38.0	.016/.011	WITH	.481	.625
6252-0781-6260	38.0	.021/.017	WITH	.481	.625
6252-0781-6264	38.0	.021/.017	WITH	.400	.550



DOUBLE FLANGE "STANDARD"

PART NUMBER	FREQUENCY GHz MAX.	ACCEPTS PIN DIA.	EMI GASKET
6252-0081-6215	38.0	.016/.011	WITHOUT
6252-0081-6220	38.0	.021/.017	WITHOUT
6252-0781-6215	38.0	.016/.011	WITH
6252-0781-6220	38.0	.021/.017	WITH



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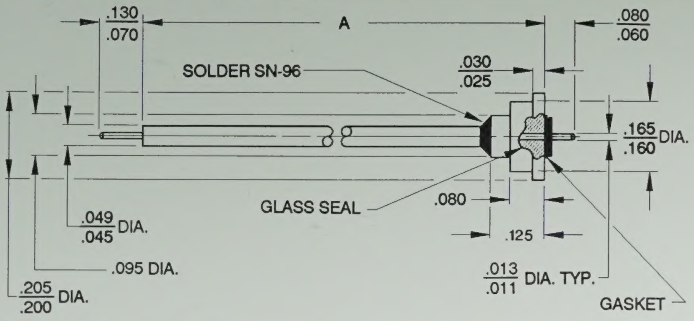
PART NUMBER	**DIMENSION "A"**
047-436-6.00	6.00
047-436-5.50	5.50
047-436-5.00	5.00
047-436-4.50	4.50
047-436-3.00	3.00
047-436-2.50	2.50
047-436-2.00	2.00
047-436-1.50	1.50
047-436-1.00	1.00



ELECTRICAL

FREQUENCY RANGE GHz	DC TO 20.0 GHz
VSWR (MAX.)*	1.05 + .006 x FGHz
INSERTION LOSS (dB MAX.)*	.05 dB/INCH X $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	170
RF LEAKAGE (MIN. dB DOWN)	100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65°C TO + 125°C
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	600
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE:	

A hermetically-sealed cable assembly for MIC packages that can be used with field replaceable connectors and that also provides package designers with internal design freedom in hermetic MIC components.

MECHANICAL

CAPTIVATION-CENTER CONTACT:	
MAX. AXIAL FORCE	4.5 LBS.
MAX. RADIAL TORQUE	2.0 IN. OZ.
CENTER CONTACT AXIAL FORCES:	

ENVIRONMENTAL

TEMPERATURE CYCLING	MIL-STD-202, METHOD 102, COND. C (-85°C TO + 125°C)
SHOCK	MIL-STD-202, METHOD 213, COND. I (100 G's)
VIBRATION	MIL-STD-202, METHOD 204, COND. D (20 G's)
MOISTURE RESISTANCE	MIL-STD-202, METHOD 106, LESS STEP 7b
CORROSION	MIL-STD-202, METHOD 101, COND. B (48 HOURS)
BAROMETRIC PRESSURE (ALTITUDE)	MIL-STD-202, METHOD 105, COND. C (70,000 FT.) (125 VRMS)

MATERIAL

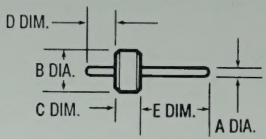
BODY	STAINLESS STEEL PER AMS 5640, TYPE 303, COND. A
GLASS PIN	NON-MAGNETIC ALLOY
CABLE, OUTER CONDUCTOR	COPPER
SOLDER	SN-96 (430°F)
GASKET	SILICON RUBBER

FINISH

BODY AND GLASS PIN	GOLD PER MIL-G-45204, TYPE I, GRADE C, CLASS 1 OVER NICKEL PER MIL-C-26074, CLASS 1, (.0001 MIN. THK.)

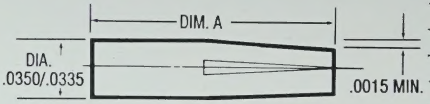
accessories

50-OHM GLASS SEAL FEEDTHROUGH



DIA. "A"	DIA. "B"	DIM. "C"	DIM. "D"	DIM. "E"	MATERIAL	MAX FREQ. GHZ	FINISH	PART NUMBER
.013/.011	.100/.097	.065/.060	.080/.065	.190/.170	KOVAR	37.0	GOLD OVER NICKEL	455-02-012
.013/.011	.078/.075	.071/.067	.060/.050	.190/.170	KOVAR	46.0		455-02-042
.016/.014	.100/.097	.065/.060	.080/.065	.190/.170	KOVAR	39.0		455-02-015
.019/.017	.113/.110	.065/.065	.080/.065	.190/.170	KOVAR	30.0		455-02-018
.021/.019	.159/.156	.061/.059	.065/.055	.075/.065	KOVAR	20.0		455-02-024

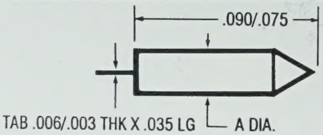
FEMALE SOCKET CONTACT



DIM. 'A'	ACCEPTS PIN DIA.	MATERIAL	FINISH	PART NUMBER
.104 /.100	.016/.011*	BERYLLIUM COPPER HEAT TREATED	GOLD	366-97-016
.104 /.100	.021/.017*		GOLD	366-97-021
.139 /.135	.016/.011		GOLD	366-97-015
.139 /.135	.021/.017		GOLD	366-97-020

*THRU HOLE

MALE PIN CONTACT WITH TAB



DIA. 'A'	MATERIAL	FINISH	PART NUMBER
.016/.014	BERYLLIUM COPPER	GOLD	366-96-015
.021/.019		GOLD	366-96-020

HOW TO ORDER

Orders may be placed with our sales representative in your area or direct to our sales department in Georgetown, MA. When ordering, specify the Dynawave part number and description of the item. If special features are ordered, describe them fully and Dynawave will assign a special part number on receipt of the order. Terms are net 30 days, and shipping charges are f.o.b. Georgetown, MA.

WARRANTY

The seller warrants that, at the time of shipment, the products manufactured by the seller are free from defects in material and workmanship. The seller's obligation under this warranty is limited to replacement or repair of such products within one year from the date of shipment

The seller is in no event liable for consequential damages, installation cost or other costs of any nature as a result of the use of the products manufactured by the seller, whether used in accordance with instructions or not. This warranty is in lieu of all others, either expressed or implied including, but not limited to, any implied warranty or merchantability or fitness for a particular purpose, No representative is authorized to assume for the seller any other or additional liability in connection with the seller's products.

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